

AMENDMENTS TO THE CLAIMS

The following listing of claims will replace all prior versions and listings of claims in the application.

LISTING OF CLAIMS

1. (Cancelled)
2. (Cancelled)
3. (Currently Amended) A method for producing cellobiase, said method comprising the steps of :
 - (a) inoculating a mycelial culture of the *Termitomyces clypeatus* II CB-411 into sterilized medium containing carbon and nitrogen sources, inorganic salts, organic nutrients and glycosylation inhibitor 2-deoxy-D-glucose in the range of 0.05 mg/ml to ~~[[1]]~~2 mg/ml at a pH of between 3 to 8;
 - (b) growing the mycelial culture at temperatures between 20-37°C under shaking aerobic conditions; and
 - (c) separating culture medium from the mycelia to obtain cellobiase activity in the range of ~~about~~ 2.236 units/ml to 140.60 units/ml .
- 4-6. (Cancelled)
7. (Previously Presented) The method of claim 3, wherein the carbon source is selected from the group consisting of carbohydrates, agrowastes, TCA cycle acids,

amino acids, and D-glucosamine, wherein the carbohydrates are selected from the group consisting of cellobiose, mannose, fructose, xylose, arabinose, starch, dextrine, cellulose, cotton, and xylan; wherein agrowastes are selected from the group consisting of baggasse powder, rice-straw powder, wheat bran, corn cob powder, and corn powder; wherein the TCA cycle acids are selected from the group consisting of succinate, fumarate, and maleate; and wherein the amino acids are selected from the group consisting of aspartate, glutamate, serine, histidine, and alanine.

8. (Cancelled)

9. (Previously Presented) The method of claim 3, wherein the nitrogen source is selected from the group consisting of ammonium chloride, ammonium nitrate, ammonium dihydrogen orthophosphate, and potassium nitrate.

10. (Previously Presented) The method of claim 3, wherein the sterilized medium comprises an organic nutrient selected from the group consisting of malt extract, yeast extract, potato extract, peptone, soya-peptone, bactopectone, and corn steep liquor.

11. (Previously Presented) The method of claim 3, wherein the sterilized medium further comprises a detergent selected from group consisting of Tween-20, Tween-80, and Tween-100.

12. (Cancelled)

13. (Previously Presented) The method of claim 3, wherein activity of cellobiase is about 2.23 units/ml and the 2-deoxy-D-glucose is present at a concentration of about 0.05 mg/ml.

14. (Previously Presented) The method of claim 3, wherein activity of cellobiase is about 50.09 units/ml and the 2-deoxy-D-glucose is present at a concentration of about 1 mg/ml.

15. (Previously Presented) The method of claim 3, wherein activity of cellobiase is about 90 units/ml and the 2-deoxy-D-glucose is present at a concentration of about 300 µg/ml.

16. (Previously Presented) The method of claim 3, wherein activity of cellobiase is about 140 units/ml, the 2-deoxy-D-glucose is present at a concentration of about 1 mg/ml and mannose is present at a concentration of about 500 µg/ml.

17-28 (Cancelled)

29. (New) The method as claimed in claim 2, wherein the carbon source selected is cellobiase, mannose and succinate.